DESIGN PANEL NO. 48 2-19-98

REDUNDANCY MANAGEMENT THREAD Atlas DP1 - Jack Blackledge

OVERVIEW

This thread develops the Atlas Redundancy Management using the System and Subsystem Integrity infrastructure developed in Thor. The Thor delivery defined the means for transmitting/logging, and displaying Subsystem health and performance information. For Atlas the mechanism for implementing redundancy policies will be developed and the redundancy management policies for gateway subsystems will be defined and implemented. The set configurability capability will be extended to include the capability to add and removed subsystems from a test set and update the System Configuration Table (SCT). During Atlas, the mechanisms for supporting application software redundancy will be defined, but not implemented.

ACTIONS	ACTIONEE	DUE DATE	STATUS
1. PCM Uplink and Consolidated Systems Gateways were not planned to have a “standby”. The user community requested to build all Gateways with standby capability. This was not included on the original labor assessments for the development of these Gateways. Systems Engineering must decide if standby capability for the Consolidated Systems Gateway and PCM Uplink Gateway is possible.	Systems Engineering	3/17/98	In work

DP1 will need to return to Design Panel

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SYSTEM TIMING THREAD Atlas DP1 - Alex Morales

OVERVIEW

This thread provides the distribution of Universal Coordinated Time (UTC) for display, data time stamping, and synchronization of other derived times and application timers. Count Down Time (CDT), Mission Elapsed Time (MET) and their Active Periods (also referred as time remaining) will be generated, managed and distributed. In addition, this thread provides the capability for synchronizing the Orbiter's Master Timing Unit (MTU) to the GMT.

ACTIONS	ACTIONEE	DUE DATE	STATUS
Where does Timing Services reside in RTPS (CCP or DDP)	Alex Morales	3/12/98	In work

Approved